

Amendment to the Claims

This listing of the claims replaces all prior versions and listings of claims in the application. Please amend claims 1 through 9 and add new claims 10 and 11 as follows:

1. (Currently amended). ~~A method~~Method of transmitting data over a wireless link,~~wherein it comprises the following steps, the method comprising:~~

~~insertion of~~inserting the data into packets according to a format corresponding to at least a certain layer or layers of a first protocol for data transmission over ~~at~~the wireless network;
~~constructing use of these packets to form~~ a frame in accordance with a second protocol for data transmission over ~~at~~the wireless network, the second protocol being different from the first protocol, the frame comprising said packets; and

~~transmission~~transmitting the constructed frame over the wireless network according to the second protocol.

2. (Currently amended) ~~The method~~Method according to ~~claim~~Claim 1, wherein the ~~initial data to be transmitted~~ are formatted according to a protocol of a cabled bus.

3. (Currently amended) ~~The method~~Method according to ~~claim~~Claim 2 wherein the cabled bus is an IEEE 1394 bus, the first protocol for data transmission over ~~at~~the wireless network is HiperLAN/2 and the second protocol for data transmission over ~~at~~the wireless network is a protocol from a family of IEEE the 802.11 family protocols.

4. (Currently amended) ~~The method~~Method according to ~~claim~~Claim 2, wherein the packets ~~used~~ are ~~generated~~constructed into the frame by an IEEE 1394 SCS module.

5. (Currently amended) ~~The method~~Method according to ~~claim~~Claim 1, wherein the ~~frame~~frames, ~~generated~~is constructed on the basis of the ~~from said~~ packets according to an intermediate format defined by ~~the~~ said certain layer or layers of the first protocol for data transmission over ~~at~~the wireless network, the ~~said constructed frame~~ frames being in accordance with the second protocol for data transmission over a wireless network, ~~are~~the constructed frame

being distinguished from ~~the~~ other frames transmitted over a wireless network by a specific identifier in the constructed frame.

6. (Currently amended) ~~The method~~Method according to claim~~Claim~~ 1, wherein the ~~frame~~frames, ~~generated~~is constructed on the basis of the ~~from said~~ packets according to an intermediate format defined by ~~the~~ said certain layer or layers of the first protocol for data transmission over ~~at~~the wireless network and in accordance with the second protocol for data transmission over a wireless network, ~~are~~the constructed frame being distinguished from ~~the~~ other frames through the use of specific MAC addresses identifying ~~their~~ origin and ~~their~~ destination of the constructed frame.

7. (Currently amended) A data~~Data~~ transmission apparatus, ~~containing~~comprising:

means ~~making it possible to receive frames~~for receiving a first frame according to ~~the~~a first protocol and formatted according to a cabled bus,

means ~~of connection~~for connecting to a wireless network,

a module for processing the ~~frame~~first frame formatted according to ~~at~~the cabled bus so as to insert ~~the~~ data received on the cabled bus into a second frame according to a format defined by a ~~first~~second protocol for data transmission over ~~at~~the wireless network,

wherein the apparatus ~~contains~~further comprises means for generating ~~transmission frames~~the second frame for transmission in accordance with ~~at~~the second protocol for data transmission over ~~at~~the wireless network, the second protocol being different from the first protocol, ~~on the basis of the said~~by inserting packets of said received data in which are inserted data received from the cabled bus, the ~~said~~ packets of said received data being formatted according to at least a certain layer or layers of the first protocol.

8. (Currently amended) ~~The apparatus~~Apparatus according to claim~~Claim~~ 7, wherein the cabled bus is an IEEE 1394 bus, the first protocol for data transmission over ~~at~~the wireless network is HiperLAN/2 and the second protocol for data transmission over a wireless network is a protocol from a family of IEEE ~~the~~ 802.11 protocols ~~family~~.

9. (Currently amended) ~~The apparatus~~Apparatus according to ~~claim~~Claim 7, wherein ~~the generated frame~~ comprises, as far as the second protocol is concerned, ~~only the~~ a certain ~~layer or layers~~ necessary for ~~the~~ encapsulation and ~~the~~ transmission of packets as said frame for transmission generated with ~~the~~ aid of ~~the~~ said certain layer or layers of the first protocol.

10. (New) The method according to Claim 5, wherein the specific identifier comprises a logical link control packet appended to an IEEE 802.11 frame.

11. (New) The method according to Claim 6, wherein the specific MAC addresses comprise first and second addresses, a first address at an IEEE 802.11 drive level and a second address created by repeating IEEE 802.11 authentication and association.